

Fig. 5. The logical Structure of multi-class Classifier designed with multi-stage two-class classifiers

Note:

- (i) Each classifier is a MACA having the states of one subset of attractor basins belonging to one class while that of the other subset covers the elements of the second class.
- (ii) The PEF (Pseudo Exhaustive Field) field of attractor is used as the address to access 1 bit Index Memory (36 in Fig 1 (b)) that stores 1 bit (0 or 1) class information of two-class classification.

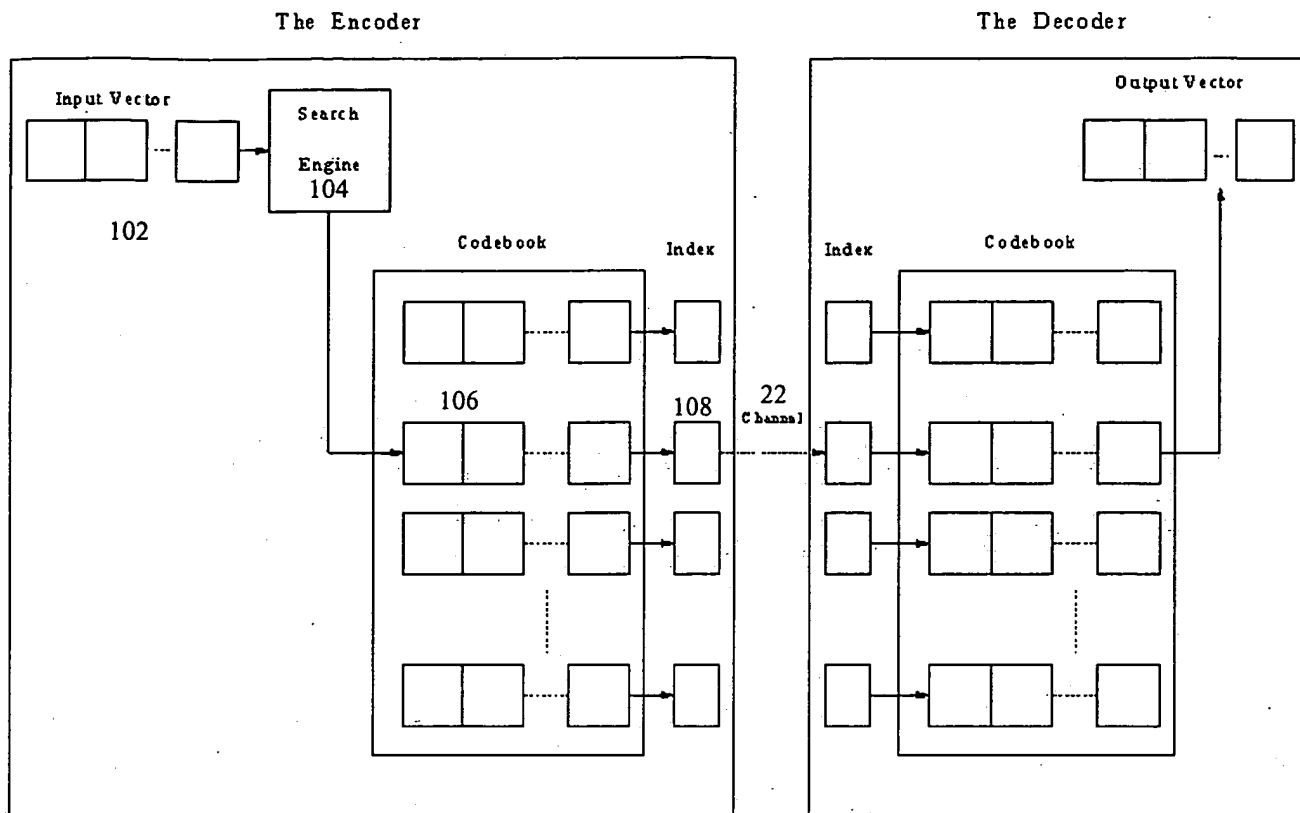


Fig. 6. Encoder and Decoder

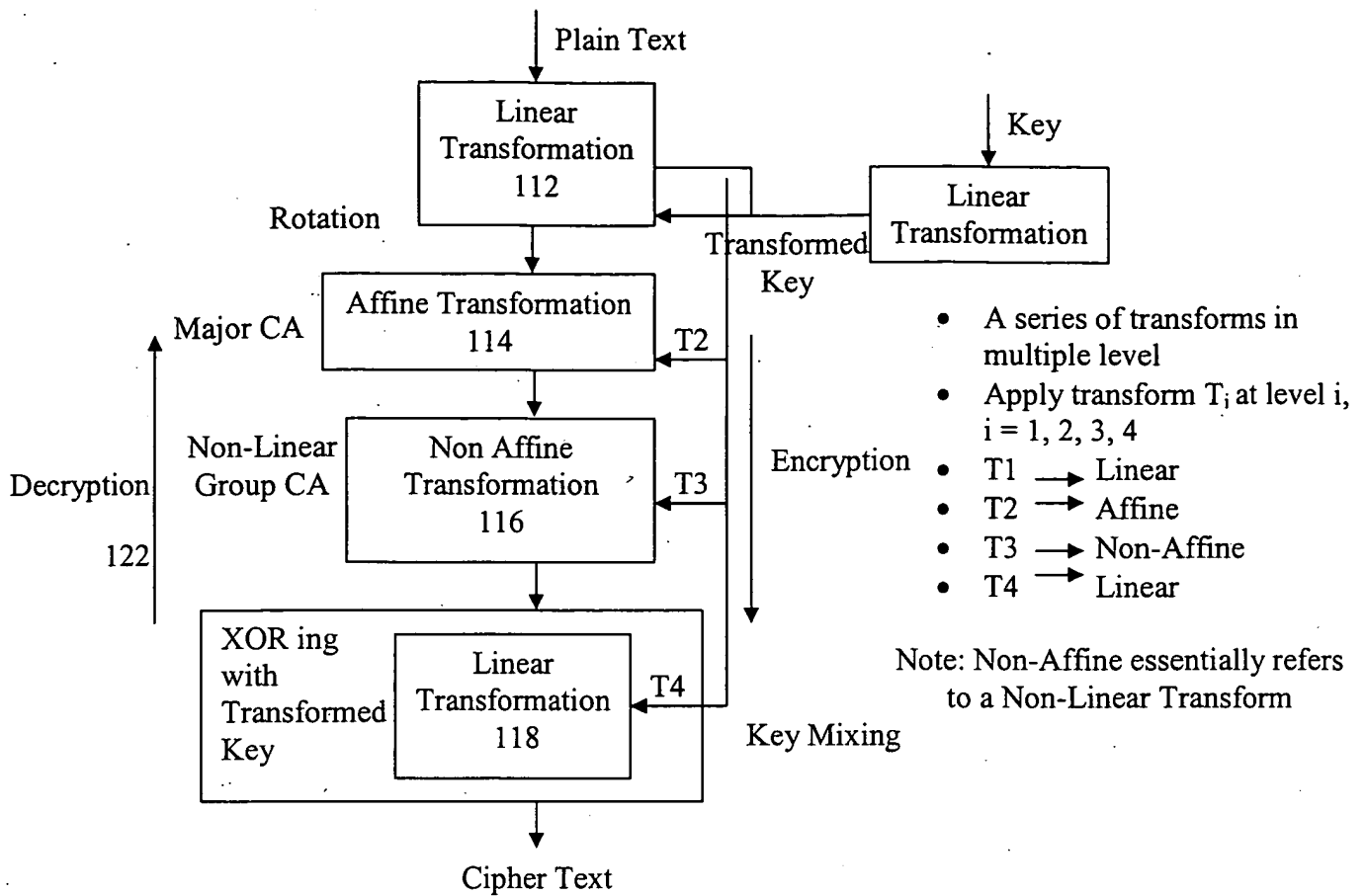


Fig. 7. Block Diagram of Encryption Scheme integrated in the Encompression Algorithm